Mohan Edirisinghe

List of Publications by Year
in descending order

174 papers	6,628 citations	76031 42 h-index	97045 71 g-index
186 all docs	186 docs citations	186 times ranked	8401 citing authors

#	Article	IF	Citations
1	Electrospinning versus fibre production methods: from specifics to technological convergence. Chemical Society Reviews, 2012, 41, 4708.	18.7	548
2	A novel method of selecting solvents for polymer electrospinning. Polymer, 2010, 51, 1654-1662.	1.8	269
3	Novel microbubble preparation technologies. Soft Matter, 2008, 4, 2350.	1.2	219
4	Mapping the Influence of Solubility and Dielectric Constant on Electrospinning Polycaprolactone Solutions. Macromolecules, 2012, 45, 4669-4680.	2.2	211
5	Forming of Polymer Nanofibers by a Pressurised Gyration Process. Macromolecular Rapid Communications, 2013, 34, 1134-1139.	2.0	188
6	Drug Delivery Strategies for Platinum-Based Chemotherapy. ACS Nano, 2017, 11, 8560-8578.	7.3	172
7	Bacterial cellulose micro-nano fibres for wound healing applications. Biotechnology Advances, 2020, 41, 107549.	6.0	144
8	Developments in Pressurized Gyration for the Mass Production of Polymeric Fibers. Macromolecular Materials and Engineering, 2018, 303, 1800218.	1.7	111
9	Generation of multilayered structures for biomedical applications using a novel tri-needle coaxial device and electrohydrodynamic flow. Journal of the Royal Society Interface, 2008, 5, 1255-1261.	1.5	109
10	A New Method for the Preparation of Monoporous Hollow Microspheres. Langmuir, 2010, 26, 5115-5121.	1.6	108
11	One-step electrohydrodynamic production of drug-loaded micro- and nanoparticles. Journal of the Royal Society Interface, 2010, 7, 667-675.	1.5	96
12	Experimental and theoretical investigation of the fluid behavior during polymeric fiber formation with and without pressure. Applied Physics Reviews, 2019, 6, 041401.	5.5	94
13	Facile synthesis of both needle-like and spherical hydroxyapatite nanoparticles: Effect of synthetic temperature and calcination on morphology, crystallite size and crystallinity. Materials Science and Engineering C, 2014, 42, 83-90.	3.8	85
14	A comparison of methods to assess the antimicrobial activity of nanoparticle combinations on bacterial cells. PLoS ONE, 2018, 13, e0192093.	1.1	74
15	Electrohydrodynamic Direct Writing of Biomedical Polymers and Composites. Macromolecular Materials and Engineering, 2010, 295, 315-319.	1.7	71
16	PEEK surface modification by fast ambient-temperature sulfonation for bone implant applications. Journal of the Royal Society Interface, 2019, 16, 20180955.	1.5	71
17	Preparation of Multilayered Polymeric Structures Using a Novel Fourâ€Needle Coaxial Electrohydrodynamic Device. Macromolecular Rapid Communications, 2014, 35, 618-623.	2.0	70
18	Electrosprayed nanoparticle delivery system for controlled release. Materials Science and Engineering C, 2016, 66, 138-146.	3.8	70

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19	Dynamics of Bubble Formation in Highly Viscous Liquids. Langmuir, 2008, 24, 4388-4393.	1.6	69
20	Microstructure and antibacterial efficacy of graphene oxide nanocomposite fibres. Journal of Colloid and Interface Science, 2020, 571, 239-252.	5.0	67
21	Formation of Protein and Proteinâ€“Gold Nanoparticle Stabilized Microbubbles by Pressurized Gyration. Langmuir, 2015, 31, 659-666.	1.6	65
22	Highly Stretchable and Highly Resilient Polymerâ€“Clay Nanocomposite Hydrogels with Low Hysteresis. ACS Applied Materials & Interfaces, 2017, 9, 22223-22234.	4.0	65
23	Evaluation of burst release and sustained release of pioglitazone-loaded fibrous mats on diabetic wound healing: an <i>in vitro</i> and <i>in vivo</i> comparison study. Journal of the Royal Society Interface, 2020, 17, 20190712.	1.5	65
24	Electrohydrodynamic encapsulation of cisplatin in poly (lactic-co-glycolic acid) nanoparticles for controlled drug delivery. Nanomedicine: Nanotechnology, Biology, and Medicine, 2016, 12, 1919-1929.	1.7	64
25	Nanocomposites: suitable alternatives as antimicrobial agents. Nanotechnology, 2018, 29, 282001.	1.3	63
26	Polymerâ€“Magnetic Composite Fibers for Remote-Controlled Drug Release. ACS Applied Materials & Interfaces, 2018, 10, 15524-15531.	4.0	61
27	Controlling the thickness of hollow polymeric microspheres prepared by electrohydrodynamic atomization. Journal of the Royal Society Interface, 2010, 7, S451-60.	1.5	60
28	Investigating the particle to fibre transition threshold during electrohydrodynamic atomization of a polymer solution. Materials Science and Engineering C, 2016, 65, 240-250.	3.8	60
29	Wholly Biobased, Highly Stretchable, Hydrophobic, and Self-healing Thermoplastic Elastomer. ACS Applied Materials & Interfaces, 2021, 13, 6720-6730.	4.0	60
30	Design, construction and performance of a portable handheld electrohydrodynamic multi-needle spray gun for biomedical applications. Materials Science and Engineering C, 2013, 33, 213-223.	3.8	59
31	Solubilityâ€“spinnability map and model for the preparation of fibres of polyethylene (terephthalate) using gyration and pressure. Chemical Engineering Journal, 2015, 280, 344-353.	6.6	57
32	Current methodologies and approaches for the formation of coreâ€“sheath polymer fibers for biomedical applications. Applied Physics Reviews, 2020, 7, .	5.5	56
33	Accelerated diabetic wound healing by topical application of combination oral antidiabetic agents-loaded nanofibrous scaffolds: An in vitro and in vivo evaluation study. Materials Science and Engineering C, 2021, 119, 111586.	3.8	54
34	Release profile and characteristics of electrosprayed particles for oral delivery of a practically insoluble drug. Journal of the Royal Society Interface, 2012, 9, 2437-2449.	1.5	52
35	Mucoadhesion of Progesterone-Loaded Drug Delivery Nanofiber Constructs. ACS Applied Materials & Interfaces, 2018, 10, 13381-13389.	4.0	51
36	Coupling Infusion and Gyration for the Nanoscale Assembly of Functional Polymer Nanofibers Integrated with Genetically Engineered Proteins. Macromolecular Rapid Communications, 2015, 36, 1322-1328.	2.0	50

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37	Poly(3-hydroxyoctanoate), a promising new material for cardiac tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, e495-e512.	1.3	50
38	The effect of grapheneâ€“poly(methyl methacrylate) fibres on microbial growth. Interface Focus, 2018, 8, 20170058.	1.5	50
39	Preparation of monodisperse microbubbles using an integrated embedded capillary T-junction with electrohydrodynamic focusing. Lab on A Chip, 2014, 14, 2437-2446.	3.1	49
40	The effect of surfactant type and concentration on the size and stability of microbubbles produced in a capillary embedded T-junction device. RSC Advances, 2015, 5, 10751-10762.	1.7	49
41	Electrospraying and Electrospinning of Chocolate Suspensions. Food and Bioprocess Technology, 2012, 5, 2285-2300.	2.6	48
42	Continuous Generation of Ethyl Cellulose Drug Delivery Nanocarriers from Microbubbles. Pharmaceutical Research, 2013, 30, 225-237.	1.7	43
43	Preparation of bone-implants by coating hydroxyapatite nanoparticles on self-formed titanium dioxide thin-layers on titanium metal surfaces. Materials Science and Engineering C, 2016, 63, 172-184.	3.8	43
44	Composite nanoclay-hydroxyapatite-polymer fiber scaffolds for bone tissue engineering manufactured using pressurized gyration. Composites Science and Technology, 2021, 202, 108598.	3.8	43
45	Generation of poly(N-vinylpyrrolidone) nanofibres using pressurised gyration. Materials Science and Engineering C, 2014, 39, 168-176.	3.8	42
46	Antibacterial Activity and Biosensing of PVA-Lysozyme Microbubbles Formed by Pressurized Gyration. Langmuir, 2015, 31, 9771-9780.	1.6	42
47	Making Nonwoven Fibrous Poly(Îµâ€•caprolactone) Constructs for Antimicrobial and Tissue Engineering Applications by Pressurized Melt Gyration. Macromolecular Materials and Engineering, 2016, 301, 922-934.	1.7	42
48	Ethyl cellulose, cellulose acetate and carboxymethyl cellulose microstructures prepared using electrohydrodynamics and green solvents. Cellulose, 2018, 25, 1687-1703.	2.4	42
49	Core-Liquid-Induced Transition from Coaxial Electrospray to Electrospinning of Low-Viscosity Poly(lactide-<i>co</i>-glycolide) Sheath Solution. Macromolecules, 2014, 47, 7930-7938.	2.2	40
50	Novel Making of Bacterial Cellulose Blended Polymeric Fiber Bandages. Macromolecular Materials and Engineering, 2018, 303, 1700607.	1.7	40
51	Simultaneous Application of Pressure-Infusion-Gyration to Generate Polymeric Nanofibers. Macromolecular Materials and Engineering, 2017, 302, 1600564.	1.7	39
52	Electrohydrodynamic fabrication of core–shell PLGA nanoparticles with controlled release of cisplatin for enhanced cancer treatment. International Journal of Nanomedicine, 2017, Volume 12, 3913-3926.	3.3	39
53	Generation of Coreâ€“Sheath Polymer Nanofibers by Pressurised Gyration. Polymers, 2020, 12, 1709.	2.0	39
54	Direct Writing of Polycaprolactone Polymer for Potential Biomedical Engineering Applications. Advanced Engineering Materials, 2011, 13, B296.	1.6	38

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55	Making nanofibres of mucoadhesive polymer blends for vaginal therapies. European Polymer Journal, 2015, 70, 186-196.	2.6	38
56	The development of progesterone-loaded nanofibers using pressurized gyration: A novel approach to vaginal delivery for the prevention of pre-term birth. International Journal of Pharmaceutics, 2018, 540, 31-39.	2.6	38
57	Comparative Study of the Antimicrobial Effects of Tungsten Nanoparticles and Tungsten Nanocomposite Fibres on Hospital Acquired Bacterial and Viral Pathogens. Nanomaterials, 2020, 10, 1017.	1.9	38
58	Application of Electrohydrodynamic Technology for Folic Acid Encapsulation. Food and Bioprocess Technology, 2013, 6, 1837-1846.	2.6	37
59	Physio-chemical and antibacterial characteristics of pressure spun nylon nanofibres embedded with functional silver nanoparticles. Materials Science and Engineering C, 2015, 56, 195-204.	3.8	36
60	Engineering a material for biomedical applications with electric field assisted processing. Applied Physics A: Materials Science and Processing, 2009, 97, 31-37.	1.1	35
61	Development and Characterization of Amorphous Nanofiber Drug Dispersions Prepared Using Pressurized Gyration. Molecular Pharmaceutics, 2015, 12, 3851-3861.	2.3	35
62	The comparision of glybenclamide and metformin-loaded bacterial cellulose/gelatin nanofibres produced by a portable electrohydrodynamic gun for diabetic wound healing. European Polymer Journal, 2020, 134, 109844.	2.6	35
63	Fabrication of Biomaterials via Controlled Protein Bubble Generation and Manipulation. Biomacromolecules, 2011, 12, 4291-4300.	2.6	34
64	Effect of operating conditions and liquid physical properties on the size of monodisperse microbubbles produced in a capillary embedded T-junction device. Microfluidics and Nanofluidics, 2013, 14, 797-808.	1.0	34
65	Preparation of polymeric nanoparticles by novel electrospray nanoprecipitation. Polymer International, 2015, 64, 183-187.	1.6	34
66	Antimicrobial activity of telluriumâ€loaded polymeric fiber meshes. Journal of Applied Polymer Science, 2018, 135, 46368.	1.3	34
67	A novel process for drug encapsulation using a liquid to vapour phase change material. Soft Matter, 2009, 5, 5029.	1.2	33
68	Beads, beaded-fibres and fibres: Tailoring the morphology of poly(caprolactone) using pressurised gyration. Materials Science and Engineering C, 2016, 69, 1373-1382.	3.8	33
69	Novel pressurised gyration device for making core-sheath polymer fibres. Materials and Design, 2019, 178, 107846.	3.3	33
70	Preparation of Polymeric and Ceramic Porous Capsules by a Novel Electrohydrodynamic Process. Pharmaceutical Development and Technology, 2008, 13, 425-432.	1.1	32
71	A Comparison of Electricâ€Fieldâ€Driven and Pressureâ€Driven Fiber Generation Methods for Drug Delivery. Macromolecular Materials and Engineering, 2018, 303, 1700577.	1.7	32
72	A novel reusable anti-COVID-19 transparent face respirator with optimized airflow. Bio-Design and Manufacturing, 2021, 4, 1-9.	3.9	32

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73	A novel treatment strategy for preterm birth: Intra-vaginal progesterone-loaded fibrous patches. International Journal of Pharmaceutics, 2020, 588, 119782.	2.6	31
74	Surface interactions and viability of coronaviruses. Journal of the Royal Society Interface, 2021, 18, 20200798.	1.5	31
75	Preparation of poly(glycerol sebacate) fibers for tissue engineering applications. European Polymer Journal, 2019, 121, 109297.	2.6	30
76	Antiâ€fungal bandages containing cinnamon extract. International Wound Journal, 2019, 16, 730-736.	1.3	30
77	Coâ€Culture of Keratinocyteâ€<i>Staphylococcus aureus</i> on Cuâ€Agâ€Zn/CuO and Cuâ€Agâ€W Nanoparticle Loaded Bacterial Cellulose:PMMA Bandages. Macromolecular Materials and Engineering, 2019, 304, 1800537.	1.7	30
78	Gyrospun antimicrobial nanoparticle loaded fibrous polymeric filters. Materials Science and Engineering C, 2017, 74, 315-324.	3.8	29
79	Metformin-Loaded Polymer-Based Microbubbles/Nanoparticles Generated for the Treatment of Type 2 Diabetes Mellitus. Langmuir, 2022, 38, 5040-5051.	1.6	29
80	Graphene nanoplatelets loaded polyurethane and phenolic resin fibres by combination of pressure and gyration. Composites Science and Technology, 2016, 129, 173-182.	3.8	28
81	Novel Preparation, Microstructure, and Properties of Polyacrylonitrile-Based Carbon Nanofiberâ€"Graphene Nanoplatelet Materials. ACS Omega, 2016, 1, 202-211.	1.6	28
82	Viral filtration using carbonâ€based materials. Medical Devices & Sensors, 2020, 3, e10107.	2.7	27
83	Harnessing Polyhydroxyalkanoates and Pressurized Gyration for Hard and Soft Tissue Engineering. ACS Applied Materials & Interfaces, 2021, 13, 32624-32639.	4.0	27
84	Core/shell microencapsulation of indomethacin/paracetamol by co-axial electrohydrodynamic atomization. Materials and Design, 2017, 136, 204-213.	3.3	26
85	Fiber Forming Capability of Binary and Ternary Compositions in the Polymer System: Bacterial Celluloseâ€"Polycaprolactoneâ€"Polylactic Acid. Polymers, 2019, 11, 1148.	2.0	26
86	Facile one-pot formation of ceramic fibres from preceramic polymers by pressurised gyration. Ceramics International, 2015, 41, 6067-6073.	2.3	24
87	Cellular interactions with bacterial cellulose: Polycaprolactone nanofibrous scaffolds produced by a portable electrohydrodynamic gun for pointâ€ofâ€need wound dressing. International Wound Journal, 2018, 15, 789-797.	1.3	24
88	Effect of copolymer composition on particle morphology and release behavior in vitro using progesterone. Materials and Design, 2018, 159, 57-67.	3.3	23
89	Electrospinning short polymer micro-fibres with average aspect ratios in the range of 10â€"200. Journal of Polymer Research, 2011, 18, 2515-2522.	1.2	22
90	A portable device for in situ deposition of bioproducts. Bioinspired, Biomimetic and Nanobiomaterials, 2014, 3, 94-105.	0.7	22

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91	Electrospinning Optimization of Eudragit E PO with and without Chlorpheniramine Maleate Using a Design of Experiment Approach. Molecular Pharmaceutics, 2019, 16, 2557-2568.	2.3	22
92	Calcium Alginate Foams Prepared by a Microfluidic T-Junction System: Stability and Food Applications. Food and Bioprocess Technology, 2012, 5, 2848-2857.	2.6	21
93	Porous Polymeric Films from Microbubbles Generated Using a T-Junction Microfluidic Device. Langmuir, 2016, 32, 13377-13385.	1.6	21
94	Metal-based nanoparticles for combating antibiotic resistance. Applied Physics Reviews, 2021, 8, .	5.5	21
95	New Generation of Tunable Bioactive Shape Memory Mats Integrated with Genetically Engineered Proteins. Macromolecular Bioscience, 2017, 17, 1600270.	2.1	20
96	Electrosprayed microparticles for intestinal delivery of prednisolone. Journal of the Royal Society Interface, 2018, 15, 20180491.	1.5	20
97	Coreâ€“sheath polymer nanofiber formation by the simultaneous application of rotation and pressure in a novel purpose-designed vessel. Applied Physics Reviews, 2021, 8, .	5.5	20
98	Microfluidic preparation of polymer nanospheres. Journal of Nanoparticle Research, 2014, 16, 2626.	0.8	19
99	Evolution of Surface Nanopores in Pressurised Gyrospun Polymeric Microfibers. Polymers, 2017, 9, 508.	2.0	19
100	Latest developments in innovative manufacturing to combine nanotechnology with healthcare. Nanomedicine, 2018, 13, 5-8.	1.7	19
101	Bioinspired preparation of alginate nanoparticles using microbubble bursting. Materials Science and Engineering C, 2015, 46, 132-139.	3.8	18
102	An Inexpensive, Portable Device for Pointâ€ofâ€Need Generation of Silverâ€Nanoparticle Doped Cellulose Acetate Nanofibers for Advanced Wound Dressing. Macromolecular Materials and Engineering, 2018, 303, 1700586.	1.7	18
103	Honeycomb-like PLGA-<i>b</i>-PEG Structure Creation with T-Junction Microdroplets. Langmuir, 2018, 34, 7989-7997.	1.6	18
104	Boron nitride nanoscrolls: Structure, synthesis, and applications. Applied Physics Reviews, 2019, 6, .	5.5	18
105	General Computational Methodology for Modeling Electrohydrodynamic Flows: Prediction and Optimization Capability for the Generation of Bubbles and Fibers. Langmuir, 2019, 35, 10203-10212.	1.6	18
106	Coâ€Axial Gyroâ€Spinning of PCL/PVA/HA Coreâ€Sheath Fibrous Scaffolds for Bone Tissue Engineering. Macromolecular Bioscience, 2021, 21, e2100177.	2.1	18
107	Novel preparation of controlled porosity particle/fibre loaded scaffolds using a hybrid micro-fluidic and electrohydrodynamic technique. Biofabrication, 2014, 6, 045010.	3.7	17
108	Microstructure and mechanical properties of synthetic brow-suspension materials. Materials Science and Engineering C, 2014, 35, 220-230.	3.8	17

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109	Analysis of blink dynamics in patients with blepharoptosis. Journal of the Royal Society Interface, 2016, 13, 20150932.	1.5	17
110	Combining microfluidic devices with coarse capillaries to reduce the size of monodisperse microbubbles. RSC Advances, 2016, 6, 63568-63577.	1.7	17
111	Electrosprayed microparticles: a novel drug delivery method. Expert Opinion on Drug Delivery, 2019, 16, 895-901.	2.4	16
112	Severe Acute Respiratory Syndrome Type 2â€Causing Coronavirus: Variants and Preventive Strategies. Advanced Science, 2022, 9, e2104495.	5.6	16
113	An encapsulated drug delivery system for recalcitrant urinary tract infection. Journal of the Royal Society Interface, 2013, 10, 20130747.	1.5	15
114	The generation of compartmentalized nanoparticles containing siRNA and cisplatin using a multi-needle electrohydrodynamic strategy. Nanoscale, 2017, 9, 5975-5985.	2.8	15
115	Effectiveness of Oil-Layered Albumin Microbubbles Produced Using Microfluidic T-Junctions in Series for In Vitro Inhibition of Tumor Cells. Langmuir, 2020, 36, 11429-11441.	1.6	15
116	Utilization of microfluidic V-junction device to prepare surface itraconazole adsorbed nanospheres. International Journal of Pharmaceutics, 2014, 472, 339-346.	2.6	14
117	Tailoring the surface of polymeric nanofibres generated by pressurised gyration. Surface Innovations, 2016, 4, 167-178.	1.4	14
118	Process Modeling for the Fiber Diameter of Polymer, Spun by Pressure-Coupled Infusion Gyration. ACS Omega, 2018, 3, 5470-5479.	1.6	14
119	Fiber Formation from Silk Fibroin Using Pressurized Gyration. Macromolecular Materials and Engineering, 2019, 304, 1800577.	1.7	14
120	Copolymer Composition and Nanoparticle Configuration Enhance in vitro Drug Release Behavior of Poorly Water-soluble Progesterone for Oral Formulations . International Journal of Nanomedicine, 2020, Volume 15, 5389-5403.	3.3	14
121	Enhanced efficacy in drug-resistant cancer cells through synergistic nanoparticle mediated delivery of cisplatin and decitabine. Nanoscale Advances, 2020, 2, 1177-1186.	2.2	14
122	Vitamin D3/vitamin K2/magnesium-loaded polylactic acid/tricalcium phosphate/polycaprolactone composite nanofibers demonstrated osteoinductive effect by increasing Runx2 via Wnt/Î²-catenin pathway. International Journal of Biological Macromolecules, 2021, 190, 244-258.	3.6	14
123	Bioinspired bubble design for particle generation. Journal of the Royal Society Interface, 2012, 9, 389-395.	1.5	13
124	Creating â€œhotelsâ€•for cells by electrospinning honeycomb-like polymeric structures. Materials Science and Engineering C, 2013, 33, 4384-4391.	3.8	13
125	Characterisation of the Chemical Composition and Structural Features of Novel Antimicrobial Nanoparticles. Nanomaterials, 2017, 7, 152.	1.9	13
126	Rapid and label-free detection of COVID-19 using coherent anti-Stokes Raman scattering microscopy. MRS Communications, 2020, 10, 566-572.	0.8	13

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127	The effect of solvent and pressure on polycaprolactone solutions for particle and fibre formation. European Polymer Journal, 2022, 173, 111300.	2.6	13
128	Forming of Protein Bubbles and Porous Films Using Coâ€Axial Electrohydrodynamic Flow Processing. Macromolecular Materials and Engineering, 2011, 296, 8-13.	1.7	12
129	Novel Preparation of Monodisperse Microbubbles by Integrating Oscillating Electric Fields with Microfluidics. Micromachines, 2018, 9, 497.	1.4	12
130	Novel antibiotic-loaded particles conferring eradication of deep tissue bacterial reservoirs for the treatment of chronic urinary tract infection. Journal of Controlled Release, 2020, 328, 490-502.	4.8	12
131	Effect of humidity on the generation and control of the morphology of honeycomb-like polymeric structures by electrospinning. European Polymer Journal, 2014, 61, 72-82.	2.6	11
132	Novel encapsulation systems and processes for overcoming the challenges of polypharmacy. Current Opinion in Pharmacology, 2014, 18, 28-34.	1.7	11
133	Evolution of self-generating porous microstructures in polyacrylonitrile-cellulose acetate blend fibres. Materials and Design, 2017, 134, 259-271.	3.3	11
134	Alginate foam-based three-dimensional culture to investigate drug sensitivity in primary leukaemia cells. Journal of the Royal Society Interface, 2018, 15, 20170928.	1.5	11
135	The Design and Construction of an Electrohydrodynamic Cartesian Robot for the Preparation of Tissue Engineering Constructs. PLoS ONE, 2014, 9, e112166.	1.1	11
136	Utilising Co-Axial Electrospinning as a Taste-Masking Technology for Paediatric Drug Delivery. Pharmaceutics, 2021, 13, 1665.	2.0	11
137	Facile One-Pot Method for All Aqueous Green Formation of Biocompatible Silk Fibroin-Poly(Ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo 1290-1300.	2.6	11
138	A device for the fabrication of multifunctional particles from microbubble suspensions. Materials Science and Engineering C, 2012, 32, 1005-1010.	3.8	10
139	Self-assembled micro-stripe patterning of sessile polymeric nanofluid droplets. Journal of Colloid and Interface Science, 2020, 561, 470-480.	5.0	10
140	Nextâ€generation Antimicrobial Peptides (AMPs) incorporated nanofibre wound dressings. Medical Devices & Sensors, 2021, 4, e10144.	2.7	10
141	Perspective: Covid-19; emerging strategies and material technologies. Emergent Materials, 2021, 4, 3-8.	3.2	10
142	Porous Graphene Composite Polymer Fibres. Polymers, 2021, 13, 76.	2.0	10
143	A novel hybrid system for the fabrication of a fibrous mesh with micro-inclusions. Carbohydrate Polymers, 2012, 89, 222-229.	5.1	9
144	Effect of the Mixing Region Geometry and Collector Distance on Microbubble Formation in a Microfluidic Device Coupled with acâ€“dc Electric Fields. Langmuir, 2019, 35, 10052-10060.	1.6	9

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145	Nozzleâ€Pressurized Gyration: A Novel Fiber Manufacturing Process. Macromolecular Materials and Engineering, 2022, 307, .	1.7	9
146	Manufacturing Man-Made Magnetosomes: High-Throughput In Situ Synthesis of Biomimetic Magnetite Loaded Nanovesicles. Macromolecular Bioscience, 2016, 16, 1555-1561.	2.1	8
147	Enhancing In Vitro Stability of Albumin Microbubbles Produced Using Microfluidic T-Junction Device. Langmuir, 2021, , .	1.6	8
148	Changing the Size and Surface Roughness of Polymer Nanospheres Formed Using a Microfluidic Technique. Jom, 2015, 67, 811-817.	0.9	7
149	Biofabrication of Gelatin Tissue Scaffolds with Uniform Pore Size via Microbubble Assembly. Macromolecular Materials and Engineering, 2019, 304, 1900394.	1.7	7
150	COVIDâ€19: Facemasks, healthcare policies and risk factors in the crucial initial months of a global pandemic. Medical Devices & Sensors, 2020, 3, e10120.	2.7	7
151	Binary polymer systems for biomedical applications. International Materials Reviews, 2023, 68, 184-224.	9.4	7
152	Optimised release of tetracycline hydrochloride from core-sheath fibres produced by pressurised gyration. Journal of Drug Delivery Science and Technology, 2022, 72, 103359.	1.4	7
153	Controlled preparation of drug-exchange phase loaded polymeric fibres. Bioinspired, Biomimetic and Nanobiomaterials, 2012, 1, 48-56.	0.7	6
154	Electrohydrodynamic printing of silk fibroin. Macromolecular Research, 2013, 21, 339-342.	1.0	6
155	Novel electrically driven direct-writing methods with managed control on in-situ shape and encapsulation polymer forming. International Journal of Material Forming, 2013, 6, 281-288.	0.9	6
156	Development of artificial bone marrow fibre scaffolds to study resistance to antiâ€leukaemia agents. British Journal of Haematology, 2018, 182, 924-927.	1.2	6
157	Generating Antibacterial Microporous Structures Using Microfluidic Processing. ACS Omega, 2019, 4, 2225-2233.	1.6	6
158	Empirical modelling and optimization of pressure-coupled infusion gyration parameters for the nanofibre fabrication. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190008.	1.0	6
159	Microstructure of fibres pressure-spun from polyacrylonitrileâ€"graphene oxide composite mixtures. Composites Science and Technology, 2020, 197, 108214.	3.8	6
160	Exploiting the antiviral potential of intermetallic nanoparticles. Emergent Materials, 2022, 5, 1251-1260.	3.2	6
161	The effect of needle tip displacement in co-axial electrohydrodynamic processing. RSC Advances, 2016, 6, 75258-75268.	1.7	5
162	The biomedical applications of graphene. Interface Focus, 2018, 8, 20180006.	1.5	5

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163	A Portable Device for the Generation of Drug-Loaded Three-Compartmental Fibers Containing Metronidazole and Iodine for Topical Application. Pharmaceutics, 2020, 12, 373.	2.0	5
164	Preface to the Microbubbles: Exploring Gas-Liquid Interfaces for Biomedical Applications Special Issue. Langmuir, 2019, 35, 9995-9996.	1.6	4
165	The influence of drug solubility and sampling frequency on metformin and glibenclamide release from double-layered particles: experimental analysis and mathematical modelling. Journal of the Royal Society Interface, 2019, 16, 20190237.	1.5	4
166	Poly(Caprolactone)â€Poly(N â€Isopropyl Acrylamide)â€Fe 3 O 4 Magnetic Nanofibrous Structure with Stimuli Responsive Drug Release. Macromolecular Materials and Engineering, 2020, 305, 2000208.	1.7	4
167	Optimization of Processâ€Control Parameters for the Diameter of Electrospun Hydrophilic Polymeric Composite Nanofibers. Macromolecular Materials and Engineering, 2021, 306, 2100471.	1.7	4
168	Stress-relaxation and fatigue behaviour of synthetic brow-suspension materials. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 42, 116-128.	1.5	3
169	Videographic Analysis of Blink Dynamics following Upper Eyelid Blepharoplasty and Its Association with Dry Eye. Plastic and Reconstructive Surgery - Global Open, 2020, 8, e2991.	0.3	3
170	Scaling the heightsâ€"challenges in medical materials. Journal of the Royal Society Interface, 2010, 7, S377-8.	1.5	1
171	Macromol. Biosci. 11/2016. Macromolecular Bioscience, 2016, 16, 1736-1736.	2.1	1
172	Preparation of Nano- and Microstructures For Drug Delivery. AAPS PharmSciTech, 2017, 18, 1427-1427.	1.5	1
173	Scaling the heightsâ€"challenges in medical materials. Journal of the Royal Society Interface, 2010, 7, S501-2.	1.5	0
174	(Adv. Eng. Mater. 9/2011). Advanced Engineering Materials, 2011, 13, n/a-n/a.	1.6	0